

Roshanak Rezaei Kalantary

List of Publications by Year in descending order

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102
papers

3,829
citations

94433

37
h-index

138484

58
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103
all docs

103
docs citations

103
times ranked

4243
citing authors

#	ARTICLE	IF	CITATIONS
1	Fenton-like catalytic oxidation of tetracycline by AC@Fe ₃ O ₄ as a heterogeneous persulfate activator: Adsorption and degradation studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 323-333.	5.8	217
2	Sono-photocatalytic degradation of tetracycline and pharmaceutical wastewater using WO ₃ /CNT heterojunction nanocomposite under US and visible light irradiations: A novel hybrid system. <i>Journal of Hazardous Materials</i> , 2020, 390, 122050.	12.4	206
3	Contaminants of emerging concern: a review of new approach in AOP technologies. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 414.	2.7	194
4	Enhanced sono-photocatalysis of tetracycline antibiotic using TiO ₂ decorated on magnetic activated carbon (MAC@T) coupled with US and UV: A new hybrid system. <i>Ultrasonics Sonochemistry</i> , 2019, 55, 75-85.	8.2	167
5	Separate and simultaneous removal of phenol, chromium, and cyanide from aqueous solution by coagulation/precipitation: Mechanisms and theory. <i>Chemical Engineering Journal</i> , 2014, 253, 251-257.	12.7	136
6	Enhanced chromium (VI) removal using activated carbon modified by zero valent iron and silver bimetallic nanoparticles. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 115.	3.0	116
7	Heterogeneous sonocatalytic degradation of amoxicillin using ZnO@Fe ₃ O ₄ magnetic nanocomposite: Influential factors, reusability and mechanisms. <i>Journal of Molecular Liquids</i> , 2018, 264, 98-109.	4.9	109
8	Development of a novel magnetite-chitosan composite for the removal of fluoride from drinking water: adsorption modeling and optimization. <i>RSC Advances</i> , 2015, 5, 73279-73289.	3.6	103
9	Magnetic Fe ₃ O ₄ @C nanoparticles as adsorbents for removal of amoxicillin from aqueous solution. <i>Water Science and Technology</i> , 2014, 69, 147-155.	2.5	84
10	Co-implanting of TiO ₂ and liquid-phase-delaminated g-C ₃ N ₄ on multi-functional graphene nanobridges for enhancing photocatalytic degradation of acetaminophen. <i>Chemical Engineering Journal</i> , 2021, 414, 128618.	12.7	81
11	Degradation of dimethyl phthalate using persulfate activated by UV and ferrous ions: optimizing operational parameters mechanism and pathway. <i>Journal of Environmental Health Science & Engineering</i> , 2019, 17, 685-700.	3.0	78
12	Visible-light-driven photocatalytic degradation of Metalaxyl by reduced graphene oxide/Fe ₃ O ₄ /ZnO ternary nanohybrid: Influential factors, mechanism and toxicity bioassay. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 375, 280-292.	3.9	72
13	Exposure to nanoscale diesel exhaust particles: Oxidative stress, neuroinflammation, anxiety and depression on adult male mice. <i>Ecotoxicology and Environmental Safety</i> , 2019, 168, 338-347.	6.0	70
14	A novel synthetic thin-film nanocomposite forward osmosis membrane modified by graphene oxide and polyethylene glycol for heavy metals removal from aqueous solutions. <i>Reactive and Functional Polymers</i> , 2020, 146, 104397.	4.1	69
15	Effect of COVID-19 pandemic on medical waste management: a case study. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 831-836.	3.0	66
16	Silica-coated magnetite nanoparticles core-shell spheres (Fe ₃ O ₄ @SiO ₂) for natural organic matter removal. <i>Journal of Environmental Health Science & Engineering</i> , 2016, 14, 21.	3.0	64
17	The comparison of ZnO/polyaniline nanocomposite under UV and visible radiations for decomposition of metronidazole: Degradation rate, mechanism and mineralization. <i>Chemical Engineering Research and Design</i> , 2019, 128, 65-76.	5.6	62
18	Effectiveness of biostimulation through nutrient content on the bioremediation of phenanthrene contaminated soil. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 143.	3.0	61

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19	Powder activated carbon/Fe ₃ O ₄ hybrid composite as a highly efficient heterogeneous catalyst for Fenton oxidation of tetracycline: degradation mechanism and kinetic. RSC Advances, 2015, 5, 84718-84728.	3.6	61
20	Iron-silver oxide nanoadsorbent synthesized by co-precipitation process for fluoride removal from aqueous solution and its adsorption mechanism. RSC Advances, 2015, 5, 87377-87391.	3.6	61
21	Reuse of polycyclic aromatic hydrocarbons (PAHs) contaminated soil washing effluent by bioaugmentation/biostimulation process. Separation and Purification Technology, 2016, 168, 248-256.	7.9	60
22	Biodegradation of 2,4-dinitrophenol with laccase immobilized on nano-porous silica beads. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 25.	1.8	57
23	Nitrate adsorption by synthetic activated carbon magnetic nanoparticles: kinetics, isotherms and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 16445-16455.	1.0	57
24	Synthesis and evaluation of the performance of g-C ₃ N ₄ /Fe ₃ O ₄ /Ag photocatalyst for the efficient removal of diazinon: Kinetic studies. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 389, 112279.	3.9	57
25	Photocatalytic degradation of malathion using Zn ²⁺ -doped TiO ₂ nanoparticles: statistical analysis and optimization of operating parameters. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	55
26	Rapid and efficient magnetically removal of heavy metals by magnetite-activated carbon composite: a statistical design approach. Journal of Porous Materials, 2015, 22, 1083-1096.	2.6	54
27	Application of mesoporous magnetic carbon composite for reactive dyes removal: Process optimization using response surface methodology. Korean Journal of Chemical Engineering, 2016, 33, 2878-2890.	2.7	54
28	Optimization and evaluation of reactive dye adsorption on magnetic composite of activated carbon and iron oxide. Desalination and Water Treatment, 2016, 57, 6411-6422.	1.0	54
29	Enhanced removal of nitrate from water using nZVI@MWCNTs composite: synthesis, kinetics and mechanism of reduction. Water Science and Technology, 2015, 72, 1988-1999.	2.5	51
30	The survey of Malathion removal using magnetic graphene oxide nanocomposite as a novel adsorbent: thermodynamics, isotherms, and kinetic study. Desalination and Water Treatment, 2016, 57, 28460-28473.	1.0	51
31	Efficient visible light-induced photocatalytic removal of paraquat using N-doped TiO ₂ @SiO ₂ @Fe ₃ O ₄ nanocomposite. Journal of Molecular Liquids, 2020, 299, 112167.	4.9	48
32	Photocatalytic degradation and mineralization of diazinon in aqueous solution using nano-TiO ₂ (Degussa, P25): kinetic and statistical analysis. Desalination and Water Treatment, 2015, 55, 555-563.	1.0	46
33	Synthesis of silica-functionalized graphene oxide/ZnO coated on fiberglass and its application in photocatalytic removal of gaseous benzene. Chemical Engineering Research and Design, 2018, 116, 377-387.	5.6	45
34	A new nano-photocatalyst based on Pt and Bi co-doped TiO ₂ for efficient visible-light photo degradation of amoxicillin. New Journal of Chemistry, 2019, 43, 1562-1568.	2.8	45
35	Enhanced photocatalytic degradation of metronidazole by TiO ₂ decorated on magnetic reduced graphene oxide: Characterization, optimization and reaction mechanism studies. Journal of Molecular Liquids, 2020, 314, 113608.	4.9	45
36	On the nature and health impacts of BTEX in a populated middle eastern city: Tehran, Iran. Atmospheric Pollution Research, 2019, 10, 921-930.	3.8	42

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37	Simultaneous adsorption of lead and aniline onto magnetically recoverable carbon: optimization, modeling and mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 3000-3010.	3.2	41
38	Performance evaluation of reverse osmosis technology for selected antibiotics removal from synthetic pharmaceutical wastewater. <i>Iranian Journal of Environmental Health Science & Engineering</i> , 2012, 9, 19.	1.8	39
39	The effect of traffic on levels, distribution and chemical partitioning of harmful metals in the street dust and surface soil from urban areas of Tehran, Iran. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	34
40	Efficiency of Polymeric Membrane Graphene Oxide-TiO ₂ for Removal of Azo Dye. <i>Journal of Chemistry</i> , 2017, 2017, 1-13.	1.9	33
41	Bisphenol A removal from aqueous solutions using novel UV/persulfate/H ₂ O ₂ /Cu system: optimization and modelling with central composite design and response surface methodology. <i>Journal of Environmental Health Science & Engineering</i> , 2016, 14, 19.	3.0	29
42	Experimental design approach to the optimization of PAHs bioremediation from artificially contaminated soil: application of variables screening development. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 22.	3.0	28
43	Monitoring of pesticides in surface water, pesticides removal efficiency in drinking water treatment plant and potential health risk to consumers using Monte Carlo simulation in Behbahan City, Iran. <i>Chemosphere</i> , 2022, 286, 131667.	8.2	28
44	Visible light photocatalytic inactivation of <i>Escherichia coli</i> by natural pyrite assisted by oxalate at neutral pH. <i>Journal of Molecular Liquids</i> , 2017, 248, 880-889.	4.9	27
45	Study of the performances of low-cost adsorbents extracted from <i>Rosa damascena</i> in aqueous solutions decolorization. , 0, 80, 357-369.		27
46	Effect of bioaugmentation to enhance phytoremediation for removal of phenanthrene and pyrene from soil with <i>Sorghum</i> and <i>Onobrychis sativa</i> . <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 24.	3.0	26
47	Pt-based TiO ₂ photocatalytic systems: A systematic review. <i>Journal of Molecular Liquids</i> , 2022, 352, 118685.	4.9	26
48	Modification of PAHs Biodegradation with Humic Compounds. <i>Soil and Sediment Contamination</i> , 2013, 22, 185-198.	1.9	25
49	Enhanced photocatalytic inactivation of <i>E. coli</i> by natural pyrite in presence of citrate and EDTA as effective chelating agents: Experimental evaluation and kinetic and ANN models. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102906.	6.7	24
50	Study of littered wastes in different urban land-uses: An 6 environmental status assessment. <i>Journal of Environmental Health Science & Engineering</i> , 2020, 18, 915-924.	3.0	23
51	Fenton regeneration of humic acid-spent carbon nanotubes. <i>Desalination and Water Treatment</i> , 2015, 54, 2490-2495.	1.0	21
52	Fine particulate matter (PM _{2.5}) in a compost facility: heavy metal contaminations and health risk assessment, Tehran, Iran. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15715-15725.	5.3	20
53	Sequencing treatment of landfill leachate using ammonia stripping, Fenton oxidation and biological treatment. <i>Waste Management and Research</i> , 2012, 30, 883-887.	3.9	19
54	Continuous adsorption of natural organic matters in a column packed with carbon nanotubes. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 14.	3.0	19

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55	Photocatalytic oxidation of benzene by ZnO coated on glass plates under simulated sunlight. <i>Chemical Papers</i> , 2019, 73, 635-644.	2.2	19
56	Learning and memory disorders related to hippocampal inflammation following exposure to air pollution. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 261-272.	3.0	19
57	A systematic review on the efficiency of cerium-impregnated activated carbons for the removal of gas-phase, elemental mercury from flue gas. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12092-12103.	5.3	18
58	Evaluation of biological landfill leachate treatment incorporating struvite precipitation and powdered activated carbon addition. <i>Waste Management and Research</i> , 2010, 28, 759-766.	3.9	17
59	Performance evaluation of enhanced SBR in simultaneous removal of nitrogen and phosphorous. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 134.	3.0	17
60	Association between exposure to polycyclic aromatic hydrocarbons and attention deficit hyperactivity disorder in children: a systematic review and meta-analysis. <i>Environmental Science and Pollution Research</i> , 2020, 27, 11531-11540.	5.3	17
61	Synthesis of new composite based on TiO ₂ immobilized in glass fibers for photo-catalytic degradation of chlorobenzene in aqueous solutions. <i>Environmental Research</i> , 2022, 204, 112018.	7.5	17
62	The study of Fenton oxidation process efficiency in the simultaneous removal of phenol, cyanide, and chromium (VI) from synthetic wastewater. <i>Desalination and Water Treatment</i> , 2013, 51, 5761-5767.	1.0	16
63	Synthesis and evaluation of the antibacterial effect of silica-coated modified magnetic poly-(amidoamine) G5 nanoparticles on <i>E. coli</i> and <i>S. aureus</i> . <i>Journal of Molecular Liquids</i> , 2019, 276, 93-104.	4.9	16
64	Application of ultrasound irradiation in landfill leachate treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 47741-47751.	5.3	16
65	Evaluation of Fenton oxidation process coupled with biological treatment for the removal of reactive black 5 from aqueous solution. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 13.	3.0	13
66	Ozonation optimization and modeling for treating diesel-contaminated water. <i>Marine Pollution Bulletin</i> , 2016, 104, 240-245.	5.0	13
67	Ozone-assisted photocatalytic degradation of gaseous toluene from waste air stream using silica-functionalized graphene oxide/ZnO coated on fiberglass: performance, intermediates, and mechanistic pathways. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 1181-1188.	3.3	13
68	Activation of peroxymonosulfate into amoxicillin degradation using cobalt ferrite nanoparticles anchored on graphene (CoFe ₂ O ₄ @Gr). <i>Toxin Reviews</i> , 2021, 40, 215-224.	3.4	13
69	Photocatalytic Degradation of Metronidazole Using ZnO/Fe ₃ O ₄ Composites Under Visible Light Irradiation: Degradation Product, and Mechanisms. <i>ChemistrySelect</i> , 2019, 4, 10288-10295.	1.5	12
70	Photo-catalytic degradation of bisphenol-a from aqueous solutions using GF/Fe-TiO ₂ -CQD hybrid composite. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 837-849.	3.0	12
71	Data on modeling of UV/Na ₂ S ₂ O ₈ /FeS ₂ process in amoxicillin removal using Box-Behnken methodology. <i>Data in Brief</i> , 2018, 19, 1810-1815.	1.0	11
72	Desorption kinetics and isotherms of phenanthrene from contaminated soil. <i>Journal of Environmental Health Science & Engineering</i> , 2019, 17, 171-181.	3.0	11

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73	Preparation of a thin-film nanocomposite forward osmosis membrane for the removal of organic micro-pollutants from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3011-3024.	2.2	11
74	Carwash wastewater treatment using the chemical processes. <i>Water Science and Technology</i> , 2021, 84, 16-26.	2.5	10
75	Synthesis and application of g-C ₃ N ₄ /Fe ₃ O ₄ /Ag nanocomposite for the efficient photocatalytic inactivation of <i>Escherichia coli</i> and <i>Bacillus subtilis</i> bacteria in aqueous solutions. <i>AMB Express</i> , 2021, 11, 161.	3.0	10
76	Optimization of Influencing Parameters on Phenanthrene Removal Efficiency in Soil Washing Process by Using Response Surface Methodology. <i>Soil and Sediment Contamination</i> , 2018, 27, 46-59.	1.9	9
77	ZnO nanoparticles photocatalytic activity toward atmospheric toluene under simulated sunlight. <i>Research on Chemical Intermediates</i> , 2020, 46, 119-131.	2.7	9
78	A comparative study of nitrate removal from aqueous solutions using zeolite, nZVI-zeolite, nZVI and iron powder adsorbents. , 0, 74, 278-288.		9
79	Influence of bioaugmentation on biodegradation of phenanthrene-contaminated soil by earthworm in lab scale. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 150.	3.0	8
80	Photocatalytic degradation data of benzene and toluene by ZnO coated on glass plates under simulated sunlight. <i>Data in Brief</i> , 2018, 20, 490-495.	1.0	8
81	Enhanced electro kinetic- pseudo-Fenton degradation of pyrene-contaminated soil using Fe ₃ O ₄ magnetic nanoparticles: A data set. <i>Data in Brief</i> , 2019, 24, 103483.	1.0	8
82	Characterization of polycyclic aromatic hydrocarbons associated with PM ₁₀ emitted from the largest composting facility in the Middle East. <i>Toxin Reviews</i> , 2021, 40, 1481-1495.	3.4	8
83	Synthesis of new hybrid composite based on TiO ₂ for photo-catalytic degradation of sulfamethoxazole and pharmaceutical wastewater, optimization, performance, and reaction mechanism studies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 56403-56418.	5.3	8
84	Monitoring and eco-toxicity effect of paraben-based pollutants in sediments/seawater, north of the Persian Gulf. <i>Environmental Geochemistry and Health</i> , 2022, 44, 4499-4521.	3.4	7
85	Treatment of hexavalent chromium by using a combined Fenton and chemical precipitation process. <i>Journal of Water Reuse and Desalination</i> , 2013, 3, 373-380.	2.3	6
86	The association of hospital emergency admissions due to respiratory-cardiovascular diseases and acute myocardial infarction with air pollution in Tehran during 2005-2014. <i>Medical Journal of the Islamic Republic of Iran</i> , 2018, 32, 440-445.	0.9	6
87	TiO ₂ -decorated magnetic biochar mediated heterogeneous photocatalytic degradation of tetracycline and evaluation of antibacterial activity. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8949-8959.	4.6	6
88	Hexavalent chromium adsorption from aqueous solutions using nanoporous graphene/Fe ₃ O ₄ (NPG/Fe ₃ O ₄ : modeling and optimization). <i>Desalination and Water Treatment</i> , 2016, 57, 28284-28293.	1.0	5
89	Remediation of phenanthrene & cadmium co-contaminated soil by using a combined process including soil washing and electrocoagulation. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-19.	3.3	5
90	Cancer risk assessment of polycyclic aromatic hydrocarbons in the soil and sediments of Iran: a systematic review study. <i>Reviews on Environmental Health</i> , 2022, 37, 597-612.	2.4	5

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91	Phenanthrene removal from liquid medium with emphasis on production of biosurfactant. <i>Water Science and Technology</i> , 2016, 74, 2879-2888.	2.5	4
92	Ozone-assisted photocatalytic degradation of benzene using nano-zinc oxide impregnated granular activated carbon (ZnO-GAC) in a continuous fluidized bed reactor. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13082.	2.3	4
93	Simultaneous removal of phenol and chromium reduction from the aqueous solution with photocatalytic process in the presence of ZnO-activated carbon fibre composite. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 1053-1067.	3.3	4
94	Characteristics of gaseous and particulate air pollutants at four different urban hotspots in Tehran, Iran. <i>Sustainable Cities and Society</i> , 2021, 70, 102907.	10.4	4
95	Enhanced photocatalytic activity of Fe ₂ O ₃ @ZnO decorated CQD for inactivation of <i>Escherichia coli</i> under visible light irradiation. <i>Journal of Environmental Health Science & Engineering</i> , 2022, 20, 101-112.	3.0	4
96	PHOTOCATALYTIC DEGRADATION OF ANILINE IN AQUEOUS SOLUTION USING ZnO NANOPARTICLES. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 53-60.	0.6	3
97	Application of dispersive liquid-liquid microextraction as a simple assisted clean-up and preconcentration technique for GC/MS determination of selected PAHs extracted from sewage sludge by Soxhlet and ultrasound assisted extraction method. , 0, 66, 176-183.		3
98	Synthesis and characterization of magnetic nano-porous graphene functionalized with carboxyl for hexavalent chromium adsorption in aqueous solution. , 0, 82, 241-251.		2
99	Environmental impact assessment of a steel industry development plan using combined method involving Leopold matrix and RIAM. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 1997-2011.	3.0	2
100	Photo-catalytic degradation of sulfamethoxazole from aqueous solutions using Cu-TiO ₂ / CQDs hybrid composite, optimisation, performance and reaction mechanism studies. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-18.	3.3	2
101	Removing phenanthrene by polyethersulfone/graphene oxide-titanium dioxide membrane. <i>Materials Express</i> , 2017, 7, 457-468.	0.5	1
102	Biosurfactant production and its effects on solubilization activity of phenanthrene: a longitudinal study. <i>Water Science and Technology</i> , 2016, 74, 580-585.	2.5	0